



PCT10

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/088,079

DATE: 04/09/2002
TIME: 13:06:45

Input Set : A:\45419_SeqList.txt
Output Set: N:\CRF3\04092002\J088079.raw

3 <110> APPLICANT: National Research Council of Canada
 5 <120> TITLE OF INVENTION: Transgenic manipulation of sn-glycerol-3-phosphate and
 6 glycerol production with a feedback defective
 7 glycerol-3-phosphate dehydrogenase gene
 9 <130> FILE REFERENCE: 45419
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/088,079
 C--> 12 <141> CURRENT FILING DATE: 2002-03-21
 14 <150> PRIOR APPLICATION NUMBER: US60/155133
 15 <151> PRIOR FILING DATE: 1999-09-22
 17 <160> NUMBER OF SEQ ID NOS: 6
 19 <170> SOFTWARE: PatentIn Ver. 2.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 1020
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Escherichia coli
 26 <400> SEQUENCE: 1
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 28 gccatcaccc tgcaagaaa tggccacgag gttgtcctct ggggccatga ccctgaacat 120
 29 atcgcaacgc ttgaacgcga ccgctgtaac gccgcgttcc tccccgatgt gcctttccc 180
 30 gatacgctcc atcttcaaag cgatctcgcc actgcgcgtgg cagccagccg taatattctc 240
 31 gtcgtcgtac ccagccatgt ctttgtgaa gtgctgcgcc agattaaacc actgatgcgt 300
 32 cctgatgcgc gtctgggttg ggcgacaaa gggctggaag cgaaaccgg acgtctgtta 360
 33 caggacgtgg cgctgaggc cttaggcgt caaattccgc tggcggttat ctctggccca 420
 34 acgtttgcga aagaactggc ggcagggtta ccgcacagcta tttcgctggc ctgcaccgat 480
 35 cagacctttg ccgatgatct ccagcagctg ctgcactgcg gcaaaagtcc 540
 36 agcaatccgg atttcattgg cgtgcagctt ggccgcgcgg taaaaaacgt tattgccatt 600
 37 ggtgcgggga tgtccgacgg tatcggttt ggtgcgaatg cgctacggc gctgatcacc 660
 38 cgtgggctgg ctgaaatgtc gcgtcttggt gcccgcgtgg gtgccgaccc tgccacctt 720
 39 atgggcatgg cggggcttgg cgatctggtg cttagctgtt ccgaaaacca gtcgcgtaac 780
 40 cggcgttttgc gcatgatgtc cggtcagggc atggatgtac aaagcgcga ggagaagatt 840
 41 ggtcaggtgg tggaaaggcta ccgcaataac aaagaagtcc gcaactggc gcatcgcttc 900
 42 ggcgttgaaa tgccaataac cgaggaaatt tatcaagtat tatattgcgg aaaaaacgcg 960
 43 cgcgaggcag cattgacttt actaggctgt gcacgcaagg acgagcgcag cagccactaa 1020
 45 <210> SEQ ID NO: 2
 46 <211> LENGTH: 339
 47 <212> TYPE: PRT
 48 <213> ORGANISM: Escherichia coli
 50 <400> SEQUENCE: 2
 51 Met Asn Gln Arg Asn Ala Ser Met Thr Val Ile Gly Ala Gly Ser Tyr
 52 1 5 10 15
 54 Gly Thr Ala Leu Ala Ile Thr Leu Ala Arg Asn Gly His Glu Val Val
 55 20 25 30
 57 Leu Trp Gly His Asp Pro Glu His Ile Ala Thr Leu Glu Arg Asp Arg

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58      35          40          45
60 Cys Asn Ala Ala Phe Leu Pro Asp Val Pro Phe Pro Asp Thr Leu His
61      50          55          60
63 Leu Glu Ser Asp Leu Ala Thr Ala Leu Ala Ser Arg Asn Ile Leu
64      65          70          75          80
66 Val Val Val Pro Ser His Val Phe Gly Glu Val Leu Arg Gln Ile Lys
67      85          90          95
69 Pro Leu Met Arg Pro Asp Ala Arg Leu Val Trp Ala Thr Lys Gly Leu
70      100         105         110
72 Glu Ala Glu Thr Gly Arg Leu Leu Gln Asp Val Ala Arg Glu Ala Leu
73      115         120         125
75 Gly Asp Gln Ile Pro Leu Ala Val Ile Ser Gly Pro Thr Phe Ala Lys
76      130         135         140
78 Glu Leu Ala Ala Gly Leu Pro Thr Ala Ile Ser Leu Ala Ser Thr Asp
79 145      150         155         160
81 Gln Thr Phe Ala Asp Asp Leu Gln Gln Leu Leu His Cys Gly Lys Ser
82      165         170         175
84 Phe Arg Val Tyr Ser Asn Pro Asp Phe Ile Gly Val Gln Leu Gly Gly
85      180         185         190
87 Ala Val Lys Asn Val Ile Ala Ile Gly Ala Gly Met Ser Asp Gly Ile
88      195         200         205
90 Gly Phe Gly Ala Asn Ala Arg Thr Ala Leu Ile Thr Arg Gly Leu Ala
91      210         215         220
93 Glu Met Ser Arg Leu Gly Ala Ala Leu Gly Ala Asp Pro Ala Thr Phe
94 225      230         235         240
96 Met Gly Met Ala Gly Leu Gly Asp Leu Val Leu Thr Cys Thr Glu Asn
97      245         250         255
99 Gln Ser Arg Asn Arg Arg Phe Gly Met Met Leu Gly Gln Gly Met Asp
100     260         265         270
102 Val Gln Ser Ala Gln Glu Lys Ile Gly Gln Val Val Glu Gly Tyr Arg
103     275         280         285
105 Asn Thr Lys Glu Val Arg Glu Leu Ala His Arg Phe Gly Val Glu Met
106     290         295         300
108 Pro Ile Thr Glu Glu Ile Tyr Gln Val Leu Tyr Cys Gly Lys Asn Ala
109 305      310         315         320
111 Arg Glu Ala Ala Leu Thr Leu Leu Gly Arg Ala Arg Lys Asp Glu Arg
112     325         330         335
114 Ser Ser His
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119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
125     GPSA3
127 <400> SEQUENCE: 3
128 tttagtggctg ctgcgcctc
130 <210> SEQ ID NO: 4
131 <211> LENGTH: 18

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Input Set : A:\45419_SeqList.txt
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132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
137 GPSA5
139 <400> SEQUENCE: 4
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142 <210> SEQ ID NO: 5
143 <211> LENGTH: 26
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR pimer
149 GPSA31
151 <400> SEQUENCE: 5
152 gagagctctt agtggctgct gcgc 26
154 <210> SEQ ID NO: 6
155 <211> LENGTH: 30
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
161 GPSA51
163 <400> SEQUENCE: 6
164 gaagaaggat ccaacaatga accaacgtaa 30

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/088,079

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Input Set : A:\45419_SeqList.txt
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L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date